CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP Bangalore.

20th July 2015

Dear Sir,

Sub: Testing Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE-11

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಂತ್ರವಿಂಡ ವಲಯ,
ಬ. ಬೆ.ಮ ಕಾ. ಬೆಂಗಳೂರು-97.

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 20mm ↓ Graded

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division.
Name of Agency	Sri. P. Suresh Kumar.
Date of Testing	20/07/2015
Specific Gravity	**2.64**
Water Absorption	**0.33%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
40	**100**	100	**Satisfies the requirement**
20	**97.6**	95-100	
10	**42.5**	25-55	
4.75	**7.9**	0-10	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
Civil Tech Labs

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division.
Name of Agency	Sri. P. Suresh Kumar.
Date of Testing	20/07/2015
Specific Gravity	**2.67**
Water Absorption	**0.30%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
80	**100**	100	**Satisfies the requirement**
40	**97.8**	95-100	
20	**55.2**	30-70	
10	**26.5**	10-35	
4.75	**4.1**	0-5	

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AEE

Lab Incharge
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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division.
Name of Agency	Sri. P. Suresh Kumar.
Date of Testing	20/07/2015
Specific Gravity	**2.56**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**97.5**	90-100	90-100	90-100	95-100		
	2.36	**86.5**	60-95	75-100	85-100	95-100		
	1.18	**76.3**	30-70	55-90	75-100	90-100		
	0.6	**47.8**	15-34	35-59	60-79	80-100		
	0.3	**26.8**	5-20	8-30	12-40	15-50		
	0.15	**8.4**	0-10	0-10	0-10	0-15		

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division.
Name of the Agency	Sri. P. Suresh Kumar.
Date of Testing	20/07/2015

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	54	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	486	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

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TEST REPORT

GAUGE TEST ON CHAIN LINK GAUGE-8

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division.
Name of the Agency	Sri. P. Suresh Kumar.
Date of Testing	20/07/2015

Gauge Test			
Guage	**Measured Thickness in mm**	**Min. As Per IS : 1136-2008 in mm**	**Remarks**
8	4.11	**4.11**	**Satisfies The Requirement**

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Lab Incharge
Civil Tech labs

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TEST REPORT

TEST ON STEEL ANGLES 50x50x5mm

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division.
Name of the Agency	Sri. P. Suresh Kumar.
Date of Testing	20/07/2015

Sl.No.	Description	Result	IS 2062-1999 & 808-1989 Min. Requirements	Remarks
1	Wt/m Length (Kg/m)	4.7	4.5	Satisfactory
2	Elongation (%)	26	23	Satisfactory
3	U T S (N/Sq.mm)	420	410	Satisfactory

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TEST REPORT

GAUGE TEST ON M.S.PIPE Nominal Size 38mm

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division.
Name of the Agency	Sri. P. Suresh Kumar.
Date of Testing	20/07/2015

Gauge Test				
Nominal Size in mm	**Guage**	**Measured Thickness in mm**	**Min. As Per IS : 1136-2008 in mm**	**Remarks**
38	**14**	1.99	**1.99**	**Satisfies The Requirement**

Note:

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T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP Bangalore.

26th August 2015

Dear Sir,

Sub: Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division. Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE-4

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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ಬ್ರ. ಬೆಂ. ಮ ಪಾ., ಬೆಂಗಳೂರು-97.

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division.
Name of Agency	Sri. P. Suresh Kumar.
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	151.18 X 51.21 X 150.0	7742	29/07/2015	26/08/2015	28	8.19	350	**15.56**	**15.67**
2		151.25 X 151.24 X 150.0	22875				8.21	352	**15.64**	
3		151.21 X 151.23 X 150.0	22867				8.22	356	**15.82**	

Note:

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(KHUSHBOO L)
Quality Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division.
Name of Agency	Sri. P. Suresh Kumar.
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	151.11 X 151.14 X 150.0	22839	29/07/2015	26/08/2015	28	8.17	354	**15.73**	**15.88**
2		151.13 X 151.16 X 150.0	22845				8.19	356	**15.82**	
3		151.18 X 151.19 X 150.0	22857				8.22	362	**16.09**	

Note:

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(KHUSHBOO L.)
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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division.
Name of Agency	Sri. P. Suresh Kumar.
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	151.14 X 151.15 X 150.0	22845	29/07/2015	26/08/2015	28	8.16	352	**15.64**	**15.85**
2		151.17 X 151.19 X 150.0	22855				8.18	358	**15.91**	
3		151.21 X 151.23 X 150.0	22867				8.23	360	**16.00**	

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AEE

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(KHUSHBOO L.)
Quality Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division.
Name of Agency	Sri. P. Suresh Kumar.
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4	151.12 X 151.16 X 150.0	22843	29/07/2015	26/08/2015	28	8.19	352	**15.64**	**15.76**
2		151.18 X 151.19 X 150.0	22857				8.20	354	**15.73**	
3		151.20 X 151.21 X 150.0	22863				8.22	358	**15.91**	

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AE-11

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Khushboo

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Providing chain link fencing and development of Parks in Government open lands in Ward No. 11 (Kuvempunagara) Vidyaranyapura sub division.
Name of Agency	Sri. P. Suresh Kumar.
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-5	151.08 X 151.09 X 150.0	22827	29/07/2015	26/08/2015	28	8.16	354	**15.73**	15.88
2		151.04 X 151.06 X 150.0	22816				8.17	356	**15.82**	
3		151.12 X 151.13 X 150.0	22839				8.18	362	**16.09**	

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Quality Manager

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